In the Claims

- (Previously Presented) A hydrophobic chemical mechanical planarization (HCMP) pad comprising: an organic polymer; and
- a metal agent, wherein the metal agent includes at least one β -diketonate ligand, wherein the metal agent includes one of cobalt, palladium, nickel, titanium, zirconium, hafnium, and

copper, and wherein the pad is useful for planarizing a semiconductor wafer.

- (Previously Presented) The HCMP pad of claim 1 wherein said organic polymer comprises one of a polyurethane or a polyether based material.
- (Previously Presented) The HCMP pad of claim 1 wherein said organic polymer is formed of a
 polyol and di-isocyanate.
- 4. (Previously Presented) The HCMP pad of claim 1 wherein said organic polymer is reactive with one of a polyfunctional amine, a diamine, a triamine, a polyfunctional hydroxyl, and a mixed functionality hydroxylamine.
- (Currently Amended) The HCMP pad of claim I further comprising a matrix material selected from the group consisting of <u>a urethane</u>, a melamine, a polyester, a polysulfone, polyvinyl acetate, and a fluorinated hydrocarbon, and mixtures and copolymers thereof.
- (Cancelled)
- (Previously Presented) The HCMP pad of claim 1 wherein the HCMP pad further comprises pores.
- (Currently Amended) The HCMP pad of claim 1 wherein the <u>B-diketonate ligand metal agent</u> includes a side group selected from hydrogen, an aryl, a perfluoraryl, an alkyl, a perfluoroalkyl, and a tbutyl group.
- (Previously Presented) The HCMP pad of claim 1 wherein a metal feature on the semiconductor wafer is isolated during planarization.

- (Previously Presented) The HCMP pad of claim 1 wherein said metal agent includes a metal compatible with a metal of the metal feature.
- 11. (Previously Presented) The HCMP pad of claim 1, wherein said pad substantially retains a planarization characteristic during the planarization.
- (Previously Presented) The HCMP pad of claim 11 wherein the planarization characteristic is one
 of shearing, hardness, wearing, cross-linking, water uptake and electrical character.
- (Previously Presented) The HCMP pad of claim 1, wherein said pad substantially avoids uptake
 of aqueous slurry during the planarization.

14.-17. (Cancelled)

- 18. (Previously Presented) A method comprising mixing an organic polymer and a metal agent to form a chemical mechanical planarization (CMP) pad, wherein the metal agent includes at least one β-diketonate ligand, and wherein the metal agent includes one of cobalt, palladium, nickel, titanium, zirconium, hafnium, and copper.
- (Currently Amended) The method of claim 18 further comprising:
 adding a foaming agent and a curing agent to the <u>organic polymer and metal agent to form a CMP</u> material;

reducing pressure around the CMP material; and heating the CMP material to form the CMP pad.

- (Previously Presented) The method of claim 19 further comprising obtaining a hydrophobic CMP pad from a log formed of the CMP material.
- 21. (Previously Presented) A method of fabricating a semiconductor device, said method comprising: providing a hydrophobic chemical mechanical planarization (HCMP) pad according to claim 1; and planarizing the semiconductor device with the HCMP pad during the fabrication of said device.
- 22. (Previously Presented) The method of claim 21 wherein the planarizing further comprises:

delivering an aqueous slurry to a surface of the HCMP pad; moving the HCMP pad in a first direction; and moving the semiconductor device in a second direction different from the first direction.

- 23.-25. (Cancelled)
- (Cancelled)
- (Previously Presented) The HCMP pad of claim 1 wherein said organic polymer comprises a
 urethane.
- (Previously Presented) The method of claim 18, wherein the metal agent is dissolved in an organic solvent.
- 29. (Previously Presented) The method of claim 18, wherein the HCMP pad further comprises pores.
- 30. (Currently Amended) The method of claim 18, wherein the β-diketonate ligand metal-agent includes a side group selected from hydrogen, an aryl, a perfluoraryl, an alkyl, a perfluoroalkyl, and a t-butyl group.
- 31. (Previously Presented) The method of claim 18, wherein the metal agent further includes at least one additional ligand comprising the formula –OR, wherein R is selected from the group consisting of hydrogen, an aryl, an alkyl, a perfluoroaryl, a perfluoroalkyl, and combinations thereof.
- (Cancelled)
- (Cancelled)
- 34. (Previously Presented) The HCMP pad of claim 1 wherein the metal agent further includes at least one additional ligand comprising the formula –OR, wherein R is selected from the group consisting of hydrogen, an aryl, an alkyl, a perfluoroaryl, a perfluoroaryl, a perfluoroaryl.